

BIBLIOGRAPHY.

RECENT ADDITIONS TO THE WEATHER BUREAU LIBRARY.

C. FITZHUGH TALMAN, Professor in Charge of Library.

The following have been selected from among the titles of books recently received as representing those most likely to be useful to Weather Bureau officials in their meteorological work and studies:

Alter, J. Cecil.

Forests in relation to climate and water supply. p. 195-198. 23 cm. (Utah academy of sciences, Transactions. April, 1921.)

Bigelow, Frank Hagar.

Treatise on the sun's radiation . . . Supplement no. 2. The two-orbit theory of radiation. Vienna. 1921. vii, 37 p. diagr. 23 cm.

Cornell university, Ithaca, N. Y.

Earth and its weather. Ithaca. 1922. p. 247-300. illus. 23 cm. (Cornell rural school leaflet. v. 15, no. 3. Jan., 1922.)

Crestani, G.

Della nomenclatura e classificazione delle nubi. p. 19-24. 28 cm. [Excerpt: R. Comitato talassografico italiano. Bollettino bimestrale. v. 11, 2° fasc. Lug.-Ago., 1921.]

Ricerche aerologiche. Sulla fronte del groppo. p. 102-110. diagr. 28 cm. [Excerpt: R. Comitato talassografico italiano. Bollettino bimestrale. num. 66 a 68. Lug.-Dic., 1920.]

Dunn, E. B.

How our winter climate has changed and why. 1 sheet. [Excerpt: New York Herald, Nov. 6, 1921.]

Gudger, E. W.

Rains of fishes. p. 607-619. 25 cm. (Reprinted from Natural history. v. 21, no. 6, 1921.)

Humphreys, William J.

Fogs and clouds. n. p. 1922. 71 p. illus. 24 cm. (Reprinted from Journal of the Franklin institute, Feb.-Mar., 1922.)

Keil, Karl.

Jahresbericht der Wetterstation Luedenscheid für die Zeit vom 1.10.20 bis 30.9.21. n. p. illus. diagr. [Manifolded from typewritten copy.]

McEwen, George F.

Seasonal rainfall for 1921-22: indications based on ocean temperatures. [1921.] 3 sheets. [Manifolded from typewritten copy.]

MacKay, A. H.

Phenology of Nova Scotia, 1918. p. 49-56. [Excerpt: Nova Scotian institute of science, Halifax. Proceedings and transactions. v. 15, pt. 1, session 1918-1919.]

Manson, Marsden.

Evolution of climates. [Baltimore.] c1922. 66 p. chart. 23½ cm.

Mexico. Servicio meteorologico.

Promedios de precipitacion en diferentes estaciones de la red meteorologica. 6 p. 24 cm.

Negro, Carlo.

Studi di elettricità atmosferica. 9 p. 18 cm. [Reprint: Società meteorologica italiana. Bollettino bimensuale. v. 41. Gen.-marzo, 1922.]

Sulla frequenza degli aloni. Torino. 1920. 9 p. 30½ cm. [Estratto: Atti della Pontificia accademia Romana dei nuovi Lincei. Sess. IIIe del 22 Feb., 1920.]

Pick, W. H.

Short course in elementary meteorology. London. 1921. 118 p. illus. plates. 24½ cm. [Great Britain. Meteorological office. M. O. 247.]

Ramser, C. E.

Gullies: how to control and reclaim them. Washington. 1922. 44 p. illus. 23½ cm. (U. S. Department of agriculture. Farmer's bulletin, 1234.)

Réthly, A.

Das im Baranyaer Inselgebirge am 29. Mai 1909. beobachtete Erdbeben. p. 341-347. 25 cm. (Separatabdruck: "Foldtani Közlöny" 47. Bd., 1917.)

Die in den Jahren 1894-1895 in Ungarn beobachteten Erdbeben. Budapest. 1915. 74 p. maps. 23 cm. [Title in Hungarian and German.]

Rhodes, E. C.

Smoothing. London. 1921. 60 p. diagr. 23 cm. (University of London, university college, dept. of applied statistics (computing section). Tracts for computers, ed. by Karl Pearson. no. 6.)

Richardson, Lewis F.

Weather prediction by numerical process. Cambridge. 1922. xii, 236 p. front. 29½ cm.

Ryd, V. H.

Dr. Gustaf Strömberg's forudberegning af temperaturen. København. 1916. 15 p. diagr. 25 cm. (Særtryk af Fysisk tidskrift. 14. aarg. 3 hefte.)

Scott, J. H.

Weather bureau as business aid. . . . p. 38-39. 31 cm. [Excerpt: Memphis chamber of commerce journal. Feb., 1922.]

Ward, Robert DeC.

Some characteristics of United States temperatures. Washington. 1922. p. 595-606. maps. 31 cm. [Reprinted from Monthly weather review. Nov., 1921. v. 49.]

RECENT PAPERS BEARING ON METEOROLOGY AND SEISMOLOGY.

C. F. TALMAN, Professor in Charge of Library.

The following titles have been selected from the contents of the periodicals and serials recently received in the Library of the Weather Bureau. The titles selected are of papers and other communications bearing on meteorology and cognate branches of science. This is not a complete index of all the journals from which it has been compiled. It shows only the articles that appear to the compiler likely to be of particular interest in connection with the work of the Weather Bureau.

Aerial age weekly. N. Y. v. 15. May 1, 1922.

Aujames, P. Some principles governing the establishment of meteorological stations along air routes. p. 175-176.

American meteorological society. Bulletin. Worcester, Mass. v. 3. Feb., 1922.

Andrus, C. G. The 1921 international spherical balloon race. p. 28-29. [Discusses meteorological features.]

Meisinger, C. Le Roy. The free-balloon in meteorology. p. 27-28.

Meisinger C. Le Roy. The symposium on pressure reductions at the Toronto meeting. p. 22-23.

Ward, Robert DeC. Some tendencies in climatology during the past decade. p. 19-21.

Annalen der Hydrographie und maritimen Meteorologie. Berlin. 49 Jahrg. 1921.

Barkow, E. Die meteorologischen Ergebnisse der zweiten Britischen Antarktischen Expedition 1910 bis 1913. p. 305-315. (30. Sept.) p. 347-356. (31. Okt.)

Defant, A. Julius von Hann. p. 337-338. (31. Okt.) [Obituary.]

Köppen, W. Die Windgebiete der Weltmeere. p. 357-359. (31. Okt.)

Benkendorff, R. Die Ziele des europäischen und des deutschen drahtlosen Wetternachrichtendienstes. p. 369-373. (30. Nov.)

Bongards, Hermann. Die Windgeschwindigkeit in verschiedenen Höhen über Eilvese in der warmen Jahreshälfte 1918. p. 373-393. (30. Nov.)

Association of American geographers. Annals. N. Y. v. 11. 1921.

Mansfield, George Rogers. The climate of southeastern Idaho. p. 75-92.

Cuba. Observatorio nacional. Boletín. Habana. v. 18. Enero, 1922.

Luis García y Carbonell. p. 3-6. [Obituary.]

Engineering news-record. v. 88. 1922.

Dorror, J. H. Rain gage and intensity of rainfall. p. 541. (March 30.)

Matthes, G. H. Floods on small streams caused by rainfall of the cloudburst type. p. 620-621. (Apr. 13.) [Abstract.]

Experiment station record. Wash. v. 46. Jan., 1922.

Azzi, G. Organization of the agricultural service of applied meteorology in Italy. p. 15. [Abstract.]

- France. Académie des sciences. Comptes rendus. Paris. t. 174. 1922.*
- Bouget, Joseph, & Virville Ad. Davy de. Influence de la météorologie de l'année 1921 sur le rougissement et la chute des feuilles. p. 768-770. (13. mars.)
- Guilbert, Gabriel. Sur l'observation des nuages en prévision du temps. p. 817-820. (20. mars.)
- Geographical review. N. Y. v. 12. Apr., 1922.*
- Brooks, Charles F. Forecasting the crops from the weather. p. 305-307.
- Burnham, Guy Harvey. Economic effects of the New England ice storm of November 26-29, 1921. p. 300.
- Stefansson, Vilhjalmur. Some erroneous ideas of Arctic geography. p. 264-277. [Discusses popular fallacies concerning Arctic climate.]
- Ward, R. DeC. Julius von Hann. p. 312-313. [Obituary.]
- Géographie. t. 37. Fév. 1922.*
- Vallaux, Camille. Influence des taches solaires sur les variations climatologiques. p. 132-139.
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- Effect of suspended impurity on health. p. 24-25.
- Owens, J. S. Dust in expired air. p. 26-27.
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- Owens, J. S. The November fog in London. p. 25-26.
- Hemel en dampkring. 19e Jaarg. Dec. 1921.
- Tydeman, G. F. De groene straal, de groene branding en groene wolken. p. 113-116.
- Iberica. Tortosa. Año 9. t. 1. 7 enero, 1922.*
- T., P. La periodicidad de la agitación microsísmica. p. 11-12.
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- Eredia, Filippo. La variazione della quantità di pioggia con l'altitudine. p. 69-73.
- Meteorological magazine. London. 1922.*
- Rainfall of 1921. p. 345-349. (Jan.)
- Gold, E. A new method of obtaining the velocity of upper winds. p. 46-47. (March.)
- Moye, M. Land- and sea-breezes in the Gulf of Lions. p. 33-35. (March.)
- National research council. Bulletin. Wash. v. 3. March, 1922.*
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- Bowie, Edward H. Daily meteorological charts of the world. p. 36-41.
- Gregg, Willis Ray. World aerology. p. 41-48.
- Humphreys, W. J. World digest of meteorological data. p. 49-50.
- McAdie, Alexander. General adoption of the centesimal system of angular measurement—with application to anemometers and nephoscopes. p. 50-53.
- McAdie, Alexander. New methods of observing winds at flying levels over the ocean. p. 94-101.
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- Marvin, C. F. Relations between solar activity and its various aspects and the phenomena of terrestrial weather. p. 31-36.
- Mauchly, S. J. Recent results derived from the diurnal-variation observations of the atmospheric-electric potential-gradient on board the *Carnegie*. p. 73-77.
- Swann, W. F. G. The penetrating radiation and its bearing upon the earth's electric field. p. 65-73.
- Natural history. N. Y. v. 22. Jan.-Feb., 1922.*
- Gudger, E. W. Rains of fishes and of frogs. p. 84.
- Nature. London. v. 109. 1922.*
- Barton, E. C. Snow furrows and ripples. p. 374. (Mar. 23.) [Describes effect of foehn on a field of snow.]
- Bonacina, L. C. W. Phenological observations. p. 373-374. (Mar. 23.)
- Bernard, Henri. Improvement of visibility of distant objects. p. 412-413.
- Ball, John. Atmospheric refraction. p. 444. (Apr. 8.)
- Shaw, Napier. Turbulence as a meteorological agency. p. 469-470. (Apr. 15.) [Review of paper by Defant.]
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- Brückmann. Pyrometrische Messungen der Himmelshelligkeit. p. 186-187. (24 Febr.) [Abstract.]
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- Schindelhauer. Über den in einer Antenne fliessenden luftelektrischen Vertikalstrom. p. 36-39.
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- Fisher, Willard J. Duration of sunrise and sunset. p. 213-216.
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- Dr. Julius von Hann. p. 75-76. [Obituary.]
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- Holmes, Charles Nevers. If New York City were the snowiest place. p. 20.
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